

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/533,4/6
Source: Per
Date Processed by STIC: 9/8/06

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RAW SEQUENCE LISTING

DATE: 09/08/2006

PATENT APPLICATION: US/10/533,416

TIME: 13:50:07

Input Set : E:\P1995R1 Sequence Listing.txt

Output Set: N:\CRF4\09082006\J533416.raw

3 <110> APPLICANT: GENENTECH, INC.
 4 FONG, SHERMAN
 5 DENNIS, KATHRYN
 6 CLARK, HILARY
 7 CHIU, HENRY
 8 SCHOENFELD, JILL
 9 WILLIAMS, P. MICKEY
 10 WOOD, WILLIAM I.
 11 WU, THOMAS D.

13 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT OF NATURAL
 14 KILLER CELL RELATED DISEASES

16 <130> FILE REFERENCE: P1995R1

C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/533,416

C--> 19 <141> CURRENT FILING DATE: 2005-04-28

21 <150> PRIOR APPLICATION NUMBER: US 60/425,235

22 <151> PRIOR FILING DATE: 2002-11-08

24 <160> NUMBER OF SEQ ID NOS: 1477

26 <210> SEQ ID NO: 1

27 <211> LENGTH: 850

28 <212> TYPE: DNA

29 <213> ORGANISM: Homo sapien

31 <400> SEQUENCE: 1

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 34 acctggaagc gggcgagtct cgtgctgtgt cggacctgca gcccctggcc 100
 36 ttccgccacc atggagtacc tcatcggtat ccaaggcccc gactatgttc 150
 38 ttgtgcctc cgaccgggtg gccgccagca atattgtcca gatgaaggac 200
 40 gatcatgaca agatgtttaa gatgagtga aagatattac tcctgtgtgt 250
 42 tggagaggct ggagacactg tacagtttgc agaatatatt cagaaaaacg 300
 44 tgcaacttta taagatgcga aatggatatg aattgtctcc cacggcagca 350
 46 gctaacttca cagccgaaa cctggctgac tgtcttcgga gtcggacccc 400
 48 atatcatgtg aacctcctcc tggctggcta tgatgagcat gaagggccag 450
 50 cgctgtatta catggactac ctggcagcct tggccaaggc cccttttgca 500
 52 gcccacggct atgggtgcctt cctgactctc agtatectcg accgatacta 550
 54 cacaccgact atctcactg agagggcagt ggaactcctt aggaaatgtc 600
 56 tggaggagct ccagaaacgc ttcacctga atctgccaac cttcagtgtt 650
 58 cgaatcattg acaaaaatgg catccatgac ctggataaca tttccttccc 700
 60 caaacagggc tcctaacatc atgtcctccc tcccacttgc cagggaactt 750
 62 ttttttgatg ggctccttta tttttttcta ctcttttcag gcgcactctt 800
 64 gataaatggt taattcagaa taaagggtgac tatggatata attgaaaaaa 850

66 <210> SEQ ID NO: 2

67 <211> LENGTH: 201

68 <212> TYPE: PRT

69 <213> ORGANISM: Homo sapien

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71 <400> SEQUENCE: 2

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72 Met Glu Tyr Leu Ile Gly Ile Gln Gly Pro Asp Tyr Val Leu Val
73   1           5           10           15
75 Ala Ser Asp Arg Val Ala Ala Ser Asn Ile Val Gln Met Lys Asp
76           20           25           30
78 Asp His Asp Lys Met Phe Lys Met Ser Glu Lys Ile Leu Leu Leu
79           35           40           45
81 Cys Val Gly Glu Ala Gly Asp Thr Val Gln Phe Ala Glu Tyr Ile
82           50           55           60
84 Gln Lys Asn Val Gln Leu Tyr Lys Met Arg Asn Gly Tyr Glu Leu
85           65           70           75
87 Ser Pro Thr Ala Ala Ala Asn Phe Thr Arg Arg Asn Leu Ala Asp
88           80           85           90
90 Cys Leu Arg Ser Arg Thr Pro Tyr His Val Asn Leu Leu Leu Ala
91           95          100          105
93 Gly Tyr Asp Glu His Glu Gly Pro Ala Leu Tyr Tyr Met Asp Tyr
94          110          115          120
96 Leu Ala Ala Leu Ala Lys Ala Pro Phe Ala Ala His Gly Tyr Gly
97          125          130          135
99 Ala Phe Leu Thr Leu Ser Ile Leu Asp Arg Tyr Tyr Thr Pro Thr
100          140          145          150
102 Ile Ser Arg Glu Arg Ala Val Glu Leu Leu Arg Lys Cys Leu Glu
103          155          160          165
105 Glu Leu Gln Lys Arg Phe Ile Leu Asn Leu Pro Thr Phe Ser Val
106          170          175          180
108 Arg Ile Ile Asp Lys Asn Gly Ile His Asp Leu Asp Asn Ile Ser
109          185          190          195
111 Phe Pro Lys Gln Gly Ser
112          200

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114 <210> SEQ ID NO: 3

115 <211> LENGTH: 2567

116 <212> TYPE: DNA

117 <213> ORGANISM: Homo sapien

119 <400> SEQUENCE: 3

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120 ctccggcgca gtgttgggac tgtctgggta tcggaaagca agcctacggt 50
122 gctcactatt acgtataatc cttttctttt caagatgcct gaggaagtgc 100
124 accatggaga ggaggaggtg gagacttttg cctttcaggc agaaattgcc 150
126 caactcatgt ccctcatcat caataccttc tattccaaca aggagatttt 200
128 ccttcgggag ttgatctcta atgcttctga tgccttgga aagattcgct 250
130 atgagagcct gacagaccct tcgaagttgg acagtggtaa agagctgaaa 300
132 attgacatca tccccaaccc tcaggaacgt accctgactt tggtagacac 350
134 aggcattggc atgaccaaag ctgatctcat aaataatttg ggaaccattg 400
136 ccaagtctgg tactaaagca ttcattggagg ctcttcaggc tgggtgcagac 450
138 atctccatga ttgggcagtt tgggtgtggc ttttattctg cctacttggt 500
140 ggcagagaaa gtggttgtga tcacaaagca caacgatgat gaacagtatg 550
142 cttgggagtc ttctgctgga ggttccttca ctgtgcgtgc tgaccatggt 600
144 gagcccattg gcaggggtac caaagtgatc ctccatctta aagaagatca 650
146 gacagagtac ctagaagaga ggcgggtcaa agaagtagtg aagaagcatt 700
148 ctcaattcat aggcattccc atcacccttt atttgagaa ggaacgagag 750

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150 aaggaaatta gtgatgatga ggcagaggaa gagaaagggtg agaaagaaga 800
152 ggaagataaa gatgatgaag aaaaacccaa gatcgaagat gtgggttcag 850
154 atgaggagga tgacagcggg aaggataaga agaagaaaac taagaagatc 900
156 aaagagaaat acattgatca ggaagaacta aacaagacca agcctatttg 950
158 gaccagaaac cctgatgaca tcaccaaga ggagtatgga gaattctaca 1000
160 agagcctcac taatgactgg gaagaccact tggcagtcaa gcacttttct 1050
162 gtgaaggtc agttggaatt cagggcattg ctattttatc ctgctcgggc 1100
164 tccctttgac ctttttgaga acaagaagaa aaagaacaac atcaaactct 1150
166 atgtccgccc tgtgttcac atggacagct gtgatgagt gataccagag 1200
168 tatctcaatt ttatccgtgg tgtggttgac tctgaggatc tgcccctgaa 1250
170 catctcccga gaaatgctcc agcagagcaa aatcttgaaa gtcattcgca 1300
172 aaaacattgt taagaagtgc cttgagctct tctctgagct ggcagaagac 1350
174 aagggaatt acaagaatt ctatgaggca ttctctaaaa atctcaagct 1400
176 tggaaatccac gaagactcca ctaaccgccc ccgctgtct gagctgctgc 1450
178 gctatcatat ctcacagtct ggagatgaga tgacatctct gtcagagtat 1500
180 gtttctcgca tgaaggagac acagaagtcc atctattaca tcaactggtga 1550
182 gagcaaagag cagggtggcca actcagcttt tgtggagcga gtgcggaaac 1600
184 ggggcttcga ggtggtatat atgaccgagc ccattgacga gtactgtgtg 1650
186 cagcagcna aggaatttga tgggaagagc ctggtctcag ttaccaagga 1700
188 ggggtctgag ctgctgagg atgaggagga gaagaagaag atggaagaga 1750
190 gcaaggcaaa gtttgagaac ctctgcaagc tcatgaaaga aatcttagat 1800
192 aagaagggtt agaaggtgac aatctccaat agacttgtgt cttcaccttg 1850
194 ctgcattgtg accagcacct acggctggac agccaatat gagcggatca 1900
196 tgaaagccca ggcacttcgg gacaactcca ccatgggcta tatgatggcc 1950
198 aaaaagcacc tggagatcaa ccctgaccac ccattgtgg agacgctgcg 2000
200 gcagaaggct gaggccgaca agaagataa ggcagttaag gacctggtgg 2050
202 tgtgctggtt tgaaccgccc ctgctatctt ctggcttttc ccttgaggat 2100
204 ccccagaccc actccaaccc catctatcgc atgatcaagc taggtctagg 2150
206 tattgatgaa gatgaagtgg cagcagagga acccaatgct gcagttcctg 2200
208 atgagatccc ccctctcgag ggcgatgagg atgctgtctc catggaagaa 2250
210 gtcgattagg ttaggagttc atagtggaa aacttgtgcc cttgtatagt 2300
212 gtcccatggt gctccactg cagcctcgag tgcccctgtc ccacctggct 2350
214 ccccctgctg gtgtctagtg tttttttccc tctctgtcc ttgtgttgaa 2400
216 ggcagtaaac taagggtgtc aagccccatt cctctctac tcttgacagc 2450
218 aggattggat gttgtgtatt gtggtttatt ttattttctt cattttgttc 2500
220 tgaaattaaa gtatgcaaaa taaagaatat gccgttttaa aaaaaaaaaa 2550
222 aaaaaaaaaa aaaaaaa 2567

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224 <210> SEQ ID NO: 4

225 <211> LENGTH: 724

226 <212> TYPE: PRT

227 <213> ORGANISM: Homo sapien

229 <400> SEQUENCE: 4

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230 Met Pro Glu Glu Val His His Gly Glu Glu Glu Val Glu Thr Phe
231 1 5 10 15
233 Ala Phe Gln Ala Glu Ile Ala Gln Leu Met Ser Leu Ile Ile Asn
234 20 25 30
236 Thr Phe Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser
237 35 40 45
239 Asn Ala Ser Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu Thr

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240		50		55		60
242	Asp Pro Ser Lys	Leu Asp Ser Gly Lys	Glu Leu Lys Ile Asp	Ile		
243		65		70		75
245	Ile Pro Asn Pro	Gln Glu Arg Thr Leu Thr	Leu Val Asp Thr	Gly		
246		80		85		90
248	Ile Gly Met Thr	Lys Ala Asp Leu Ile Asn	Asn Leu Gly Thr	Ile		
249		95		100		105
251	Ala Lys Ser Gly	Thr Lys Ala Phe Met	Glu Ala Leu Gln Ala	Gly		
252		110		115		120
254	Ala Asp Ile Ser	Met Ile Gly Gln Phe	Gly Val Gly Phe Tyr	Ser		
255		125		130		135
257	Ala Tyr Leu Val	Ala Glu Lys Val Val	Ile Thr Lys His	Asn		
258		140		145		150
260	Asp Asp Glu Gln	Tyr Ala Trp Glu Ser	Ser Ala Gly Gly	Ser Phe		
261		155		160		165
263	Thr Val Arg Ala	Asp His Gly Glu Pro	Ile Gly Arg Gly	Thr Lys		
264		170		175		180
266	Val Ile Leu His	Leu Lys Glu Asp Gln	Thr Glu Tyr Leu	Glu Glu		
267		185		190		195
269	Arg Arg Val Lys	Glu Val Val Lys Lys	His Ser Gln Phe	Ile Gly		
270		200		205		210
272	Tyr Pro Ile Thr	Leu Tyr Leu Glu Lys	Glu Arg Glu Lys	Glu Ile		
273		215		220		225
275	Ser Asp Asp Glu	Ala Glu Glu Glu Lys	Gly Glu Lys Glu	Glu Glu		
276		230		235		240
278	Asp Lys Asp Asp	Glu Glu Lys Pro Lys	Ile Glu Asp Val	Gly Ser		
279		245		250		255
281	Asp Glu Glu Asp	Asp Ser Gly Lys Asp	Lys Lys Lys Lys	Thr Lys		
282		260		265		270
284	Lys Ile Lys Glu	Lys Tyr Ile Asp Gln	Glu Glu Leu Asn	Lys Thr		
285		275		280		285
287	Lys Pro Ile Trp	Thr Arg Asn Pro Asp	Asp Ile Thr Gln	Glu Glu		
288		290		295		300
290	Tyr Gly Glu Phe	Tyr Lys Ser Leu Thr	Asn Asp Trp Glu	Asp His		
291		305		310		315
293	Leu Ala Val Lys	His Phe Ser Val Glu	Gly Gln Leu Glu	Phe Arg		
294		320		325		330
296	Ala Leu Leu Phe	Ile Pro Arg Arg Ala	Pro Phe Asp Leu	Phe Glu		
297		335		340		345
299	Asn Lys Lys Lys	Lys Asn Asn Ile Lys	Leu Tyr Val Arg	Arg Val		
300		350		355		360
302	Phe Ile Met Asp	Ser Cys Asp Glu Leu	Ile Pro Glu Tyr	Leu Asn		
303		365		370		375
305	Phe Ile Arg Gly	Val Val Asp Ser Glu	Asp Leu Pro Leu	Asn Ile		
306		380		385		390
308	Ser Arg Glu Met	Leu Gln Gln Ser Lys	Ile Leu Lys Val	Ile Arg		
309		395		400		405
311	Lys Asn Ile Val	Lys Lys Cys Leu Glu	Leu Phe Ser Glu	Leu Ala		
312		410		415		420

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314  Glu Asp Lys Glu Asn Tyr Lys Lys Phe Tyr Glu Ala Phe Ser Lys
315                                425                                430                                435
317  Asn Leu Lys Leu Gly Ile His Glu Asp Ser Thr Asn Arg Arg Arg
318                                440                                445                                450
320  Leu Ser Glu Leu Leu Arg Tyr His Thr Ser Gln Ser Gly Asp Glu
321                                455                                460                                465
323  Met Thr Ser Leu Ser Glu Tyr Val Ser Arg Met Lys Glu Thr Gln
324                                470                                475                                480
326  Lys Ser Ile Tyr Tyr Ile Thr Gly Glu Ser Lys Glu Gln Val Ala
327                                485                                490                                495
329  Asn Ser Ala Phe Val Glu Arg Val Arg Lys Arg Gly Phe Glu Val
330                                500                                505                                510
332  Val Tyr Met Thr Glu Pro Ile Asp Glu Tyr Cys Val Gln Gln Leu
333                                515                                520                                525
335  Lys Glu Phe Asp Gly Lys Ser Leu Val Ser Val Thr Lys Glu Gly
336                                530                                535                                540
338  Leu Glu Leu Pro Glu Asp Glu Glu Glu Lys Lys Lys Met Glu Glu
339                                545                                550                                555
341  Ser Lys Ala Lys Phe Glu Asn Leu Cys Lys Leu Met Lys Glu Ile
342                                560                                565                                570
344  Leu Asp Lys Lys Val Glu Lys Val Thr Ile Ser Asn Arg Leu Val
345                                575                                580                                585
347  Ser Ser Pro Cys Cys Ile Val Thr Ser Thr Tyr Gly Trp Thr Ala
348                                590                                595                                600
350  Asn Met Glu Arg Ile Met Lys Ala Gln Ala Leu Arg Asp Asn Ser
351                                605                                610                                615
353  Thr Met Gly Tyr Met Met Ala Lys Lys His Leu Glu Ile Asn Pro
354                                620                                625                                630
356  Asp His Pro Ile Val Glu Thr Leu Arg Gln Lys Ala Glu Ala Asp
357                                635                                640                                645
359  Lys Asn Asp Lys Ala Val Lys Asp Leu Val Val Leu Leu Phe Glu
360                                650                                655                                660
362  Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr
363                                665                                670                                675
365  His Ser Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile
366                                680                                685                                690
368  Asp Glu Asp Glu Val Ala Ala Glu Glu Pro Asn Ala Ala Val Pro
369                                695                                700                                705
371  Asp Glu Ile Pro Pro Leu Glu Gly Asp Glu Asp Ala Ser Arg Met
372                                710                                715                                720
374  Glu Glu Val Asp
377 <210> SEQ ID NO: 5
378 <211> LENGTH: 2657
379 <212> TYPE: DNA
380 <213> ORGANISM: Homo sapien
382 <400> SEQUENCE: 5
383 gaattccggg ccatgagctg ccccggtgccc gcctgctgcg cgctgctgct 50
385 agtcctgggg ctctgccggg cgcgtccccc gaacgcactg ctgctcctcg 100
387 cggatgacgg aggcctttgag agtggcgcgt acaacaacag cgccatcgcc 150

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:70; N Pos. 1205
Seq#:101; N Pos. 23,27,80,120
Seq#:112; N Pos. 95,99,108
Seq#:116; N Pos. 515,521,522,523,524,525,526,527,528,529,530,531,532,533
Seq#:116; N Pos. 534,535,536,537,538,539,540,541,542,543,544,545,546,547
Seq#:116; N Pos. 548,549,550,551,552,553
Seq#:117; Xaa Pos. 61,63,64,65,66,67,68,69,70,71,72,73,74
Seq#:396; N Pos. 2588,2589,2590,2591,2592,2593,2594,2595,2596,2597,2598
Seq#:396; N Pos. 2599,2600,2601,2602,2603,2604,2605,2606,2607,2608
Seq#:444; N Pos. 3509,3510,3511,3512,3513,3514,3515,3516,3517,3518,3519
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Seq#:444; N Pos. 3696,3697,3698,3699,3700,3701,3702,3703,3704,3705,3706
Seq#:444; N Pos. 3707,3708,3709,3710,3711,3712,3713,3714,3715,3716,3717
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Seq#:444; N Pos. 3740,3741,3742,3743,3744,3745,3746,3747,3748,3749,3750
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VERIFICATION SUMMARY

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Input Set : E:\P1995R1 Sequence Listing.txt

Output Set: N:\CRF4\09082006\J533416.raw

L:146672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:0
L:146675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:15
L:146678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:30
L:146681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:45
L:146684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:60
L:146687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:75
L:146690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:90
L:146693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:105
L:146855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1451 after pos.:0
L:147004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1454 after pos.:50
L:147531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1464 after pos.:0
L:147567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1464 after pos.:900
L:147600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1465 after pos.:0
L:147687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1468 after pos.:350
L:147689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1468 after pos.:400
L:147703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1468 after pos.:750
L:147705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1468 after pos.:800

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L:139803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2450
L:139805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2500
L:139807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2550
L:139809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2600
L:139811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2650
L:139813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2700
L:139815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2750
L:141268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1150
L:141294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1800
L:141296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1850
L:141298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1900
L:141300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1950
L:141498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1379 after pos.:2200
L:141500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1379 after pos.:2250
L:141627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1381 after pos.:1600
L:141649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1381 after pos.:2150
L:141651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1381 after pos.:2200
L:142397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:50
L:142399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:100
L:142415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:500
L:142509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:2850
L:142511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:2900
L:142591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:4900
L:142593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:4950
L:142682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1394 after pos.:15
L:142685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1394 after pos.:30
L:144306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:100
L:144308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:150
L:145055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:2350
L:145057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:2400
L:145059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:2450
L:145061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:2500
L:145262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:700
L:145264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:750
L:145266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:800
L:145268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:850
L:146022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1443 after pos.:950
L:146091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:450
L:146093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:500
L:146103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:750
L:146105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:800
L:146107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:850
L:146109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:900
L:146111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:950
L:146113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:1000
L:146115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:1050
L:146159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:2150
L:146161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:2200
L:146163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:2250

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L:95828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:868 after pos.:400
L:96414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:874 after pos.:2100
L:98645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:901 after pos.:3600
L:101099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:931 after pos.:1700
L:101101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:931 after pos.:1750
L:101103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:931 after pos.:1800
L:101105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:931 after pos.:1850
L:103902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:955 after pos.:1500
L:105579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:979 after pos.:0
L:108340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1011 after pos.:850
L:112511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1061 after pos.:3900
L:113392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1071 after pos.:2500
L:113546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1073 after pos.:350
L:113656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1074 after pos.:45
L:117322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1114 after pos.:0
L:120456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:0
L:120478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:550
L:120480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:600
L:120482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:650
L:120484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:700
L:120486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:750
L:132072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1274 after pos.:550
L:132234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:3500
L:132236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:3550
L:132294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:5000
L:133454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:550
L:133456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:600
L:134443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1295 after pos.:3000
L:134844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:350
L:134846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:400
L:134850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:500
L:134852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:550
L:134854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:600
L:135569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1309 after pos.:1400
L:136607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3300
L:136609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3350
L:136611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3400
L:136613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3450
L:136615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3500
L:136868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:4050
L:137156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1325 after pos.:300
L:137158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1325 after pos.:350
L:137192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1325 after pos.:1200
L:137194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1325 after pos.:1250
L:137407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1327 after pos.:1400
L:137409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1327 after pos.:1450
L:137411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1327 after pos.:1500
L:138184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:1650
L:138186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:1700

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L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:7984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:1200
L:11016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:11018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:50
L:11020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:100
L:12264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:50
L:12266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:100
L:12850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:500
L:12852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:550
L:12981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:60
L:44961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:2550
L:44963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:2600
L:49352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3500
L:49354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3550
L:49356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3600
L:49358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3650
L:49360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3700
L:49362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3750
L:49364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3800
L:49422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5250
L:49424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5300
L:49426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5350
L:49428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5400
L:49430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5450
L:49432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5500
L:49434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5550
L:66259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:200
L:66261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:250
L:66263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:300
L:66319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:1700
L:66321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:1750
L:66323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:1800
L:66512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:609 after pos.:75
L:66515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:609 after pos.:90
L:66518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:609 after pos.:105
L:67099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:617 after pos.:700
L:70593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:2500
L:74511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:682 after pos.:3000
L:77178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:712 after pos.:2750
L:85407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:780 after pos.:2100
L:88325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:807 after pos.:600
L:88327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:807 after pos.:650
L:90218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:827 after pos.:6950
L:91145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:834 after pos.:650
L:91147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:834 after pos.:700
L:91162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:835 after pos.:0
L:91892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:842 after pos.:0

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Seq#:1445; N Pos. 473,474,475,476,477,478,479,480,481,482,483,484,485,486
Seq#:1445; N Pos. 487,488,489,490,491,492,493,494,495,496,497,498,499,500
Seq#:1445; N Pos. 501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516
Seq#:1445; N Pos. 517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544
Seq#:1445; N Pos. 545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110
Seq#:1451; N Pos. 28
Seq#:1454; N Pos. 61
Seq#:1464; N Pos. 21,925,926,927,928,929,930,931,932,933,934,935,936,937
Seq#:1464; N Pos. 938,939,940,941,942,943,944,945,946
Seq#:1465; Xaa Pos. 7
Seq#:1468; N Pos. 391,392,393,394,395,396,397,398,399,400,401,402,403,404
Seq#:1468; N Pos. 405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804

RAW SEQUENCE LISTING ERROR SUMMARY
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Seq#:1379; N Pos. 2234,2235,2236,2237,2238,2239,2240,2241,2242,2243,2244
Seq#:1379; N Pos. 2245,2246,2247,2248,2249,2250,2251,2252
Seq#:1381; N Pos. 1606,1607,1608,1609,1610,1611,1612,1613,1614,1615,1616
Seq#:1381; N Pos. 1617,1618,1619,1620,1621,1622,1623,2174,2175,2176,2177
Seq#:1381; N Pos. 2178,2179,2180,2181,2182,2183,2184,2185,2186,2187,2188
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Output Set : N:\CRF4\09082006\J533416.raw

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RAW SEQUENCE LISTING ERROR SUMMARY
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Output Set : N:\CRF4\09082006\J533416.raw**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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RAW SEQUENCE LISTING

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Input Set : E:\P1995R1 Sequence Listing.txt

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320  Leu Ser Glu Leu Leu Arg Tyr His Thr Ser Gln Ser Gly Asp Glu
321                                455                                460                                465
323  Met Thr Ser Leu Ser Glu Tyr Val Ser Arg Met Lys Glu Thr Gln
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326  Lys Ser Ile Tyr Tyr Ile Thr Gly Glu Ser Lys Glu Gln Val Ala
327                                485                                490                                495
329  Asn Ser Ala Phe Val Glu Arg Val Arg Lys Arg Gly Phe Glu Val
330                                500                                505                                510
332  Val Tyr Met Thr Glu Pro Ile Asp Glu Tyr Cys Val Gln Gln Leu
333                                515                                520                                525
335  Lys Glu Phe Asp Gly Lys Ser Leu Val Ser Val Thr Lys Glu Gly
336                                530                                535                                540
338  Leu Glu Leu Pro Glu Asp Glu Glu Glu Lys Lys Lys Met Glu Glu
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342                                560                                565                                570
344  Leu Asp Lys Lys Val Glu Lys Val Thr Ile Ser Asn Arg Leu Val
345                                575                                580                                585
347  Ser Ser Pro Cys Cys Ile Val Thr Ser Thr Tyr Gly Trp Thr Ala
348                                590                                595                                600
350  Asn Met Glu Arg Ile Met Lys Ala Gln Ala Leu Arg Asp Asn Ser
351                                605                                610                                615
353  Thr Met Gly Tyr Met Met Ala Lys Lys His Leu Glu Ile Asn Pro
354                                620                                625                                630
356  Asp His Pro Ile Val Glu Thr Leu Arg Gln Lys Ala Glu Ala Asp
357                                635                                640                                645
359  Lys Asn Asp Lys Ala Val Lys Asp Leu Val Val Leu Leu Phe Glu
360                                650                                655                                660
362  Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr
363                                665                                670                                675
365  His Ser Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile
366                                680                                685                                690
368  Asp Glu Asp Glu Val Ala Ala Glu Glu Pro Asn Ala Ala Val Pro
369                                695                                700                                705
371  Asp Glu Ile Pro Pro Leu Glu Gly Asp Glu Asp Ala Ser Arg Met
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387 cggatgacgg aggccttgag agtggcgcgt acaacaacag cgccatcgcc 150

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RAW SEQUENCE LISTING

DATE: 09/08/2006

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Output Set: N:\CRF4\09082006\J533416.raw

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245	Ile Pro Asn Pro	Gln Glu Arg Thr Leu Thr	Leu Val Asp Thr	Gly		
246		80		85		90
248	Ile Gly Met Thr	Lys Ala Asp Leu Ile Asn	Asn Leu Gly Thr	Ile		
249		95		100		105
251	Ala Lys Ser Gly	Thr Lys Ala Phe Met	Glu Ala Leu Gln Ala	Gly		
252		110		115		120
254	Ala Asp Ile Ser	Met Ile Gly Gln Phe	Gly Val Gly Phe Tyr	Ser		
255		125		130		135
257	Ala Tyr Leu Val	Ala Glu Lys Val Val	Ile Thr Lys His	Asn		
258		140		145		150
260	Asp Asp Glu Gln	Tyr Ala Trp Glu Ser	Ser Ala Gly Gly Ser	Phe		
261		155		160		165
263	Thr Val Arg Ala	Asp His Gly Glu Pro	Ile Gly Arg Gly Thr	Lys		
264		170		175		180
266	Val Ile Leu His	Leu Lys Glu Asp Gln	Thr Glu Tyr Leu Glu	Glu		
267		185		190		195
269	Arg Arg Val Lys	Glu Val Val Lys Lys	His Ser Gln Phe Ile	Gly		
270		200		205		210
272	Tyr Pro Ile Thr	Leu Tyr Leu Glu Lys	Glu Arg Glu Lys Glu	Ile		
273		215		220		225
275	Ser Asp Asp Glu	Ala Glu Glu Glu Lys	Gly Glu Lys Glu Glu	Glu		
276		230		235		240
278	Asp Lys Asp Asp	Glu Glu Lys Pro Lys	Ile Glu Asp Val Gly	Ser		
279		245		250		255
281	Asp Glu Glu Asp	Asp Ser Gly Lys Asp	Lys Lys Lys Lys Thr	Lys		
282		260		265		270
284	Lys Ile Lys Glu	Lys Tyr Ile Asp Gln	Glu Glu Leu Asn Lys	Thr		
285		275		280		285
287	Lys Pro Ile Trp	Thr Arg Asn Pro Asp	Asp Ile Thr Gln Glu	Glu		
288		290		295		300
290	Tyr Gly Glu Phe	Tyr Lys Ser Leu Thr	Asn Asp Trp Glu Asp	His		
291		305		310		315
293	Leu Ala Val Lys	His Phe Ser Val Glu	Gly Gln Leu Glu Phe	Arg		
294		320		325		330
296	Ala Leu Leu Phe	Ile Pro Arg Arg Ala	Pro Phe Asp Leu Phe	Glu		
297		335		340		345
299	Asn Lys Lys Lys	Lys Asn Asn Ile Lys	Leu Tyr Val Arg Arg	Val		
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302	Phe Ile Met Asp	Ser Cys Asp Glu Leu	Ile Pro Glu Tyr Leu	Asn		
303		365		370		375
305	Phe Ile Arg Gly	Val Val Asp Ser Glu	Asp Leu Pro Leu Asn	Ile		
306		380		385		390
308	Ser Arg Glu Met	Leu Gln Gln Ser Lys	Ile Leu Lys Val Ile	Arg		
309		395		400		405
311	Lys Asn Ile Val	Lys Lys Cys Leu Glu	Leu Phe Ser Glu Leu	Ala		
312		410		415		420